

ABSTRACT

Higher-order Raman pumping is combined with pump modulation in a Raman amplified optical communication system. First- and second-order Raman pumps are both modulated and launched in opposite direction to signals in an optical fiber. Relative timing of the pumps is controlled to optimize lateral signal power distribution along the fiber.

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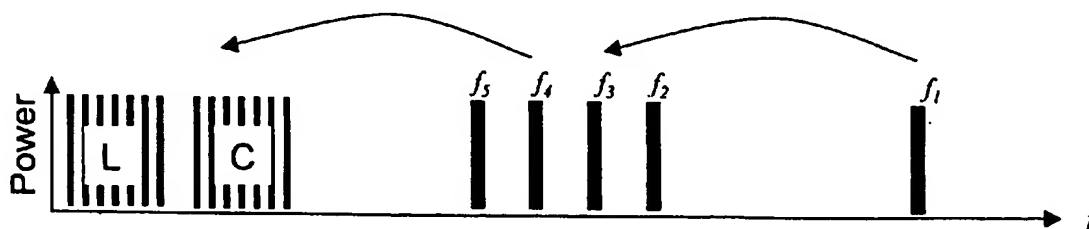
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(54) Title: RAMAN AMPLIFICATION SYSTEM UTILIZING MODULATED SECOND-ORDER RAMAN PUMPING



(57) Abstract: Higher-order Raman pumping is combined with pump modulation in a Raman amplified optical communication system. First- and second-order Raman pumps are both modulated and launched in opposite direction to signals in an optical fiber. Relative timing of the pumps is controlled to optimize lateral signal power distribution along the fiber.

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